

**Amendments to the Abstract:**

Please replace the abstract with the following amended abstract:

This invention relates to methods ~~for the facilitated evolution of proteins of~~ generating hybrid proteins that have a desired phenotype. The method comprises generating a library of hybrid proteins by identifying mismatches present in parent proteins that are aligned and generating sequence that comprise a mixture of parental residues at the mismatched sites. The invention also provides libraries of hybrid proteins and proteins generated by the methods of the invention.